English

User Manual

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SOCIO Collection
Produced by TECNOMOTOR S.p.A

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2.1 Foreword

Dear Customer, thank you for choosing the SOCIO Collection of diagnostic tools that will enable you to keep the pace with the ever-changing technology of on-board electronics. Please read this manual carefully and follow the indications provided in paragraph Safety rules.

2.1.1 Minimum PC requirements

Processor: Pentium II or higher.
Hard Drive: > 10 GB
Operating system: Windows 98SE, 2000, XP
Memory (RAM)> 128 MB
USB 1.1 port or higher.
Internet access for “TECNOMOTOR No-Stop” updates

2.1.2 Contents of the User Manual

The User Manual is divided into sections:

Product Description	Product description, list of components
Product installation	Software and Hardware installation
Operating instructions	Description of functions, legend of icons and commands
Troubleshooting	Solutions to frequently encountered problems/FAQ's

2.1.3 Symbols and glossary of safety-related terms and warnings

The following symbols are used throughout the manual to highlight important indications or information:

Warning This symbol is designed to draw your attention to important operations.

Important This symbol is designed to draw your attention to important information.

Note This symbol is used to highlight useful indications on how to use the product.

2.1.4 Safety rules

Signs and symbols:

The symbols used in this paragraph have the following meanings.

DANGER: **Failure to comply with or improper use of the information identified by this symbol may result in severe injury or death.**

WARNING: **Failure to comply with or improper use of the information identified by this symbol may result in personal injury and equipment or property damage.**

CAUTION: **Failure to comply with or improper use of the information identified by this symbol may result in improper operation of device and/or software**.

Precautions required during operation/installation:

DANGER:

- **Abnormal conditions**: Continued operation when the device has been producing smoke or abnormal odours may create a fire or electric shock hazard. Cut off power supply immediately and contact a service centre.
- **Water and foreign matter**: If foreign matter (metal, water or other fluids) enter the device, cut off power supply immediately and contact a service centre.
- **Shocks and damage**: If the device is damaged, unplug it from the power mains and contact a service centre.
- **Disassembly**: Never attempt to dismantle or make changes to the device, as this may result in a risk of fire or electric shock.
- **Placement**: Keep device away from heat, oil fumes or vapour. Such ambient conditions might create a risk of fire and electric shock. Keep the device away from fluids and volatile flammable materials. Non compliance may create a fire hazard.

WARNING:

- **Placement**: Do not place the device on unstable surfaces, high shelves or other unstable locations or the unit may fall, leading to injury and/or damage.
- **Foreign bodies**: Do not insert any foreign bodies into the connectors as this may lead to device failure.
- **Maintenance**: Never use thinners, cosmetics or other volatile agents to clean the exterior of the device. Clean with a cloth wetted with a diluted solution of water and mild detergent.

WARNING:

- **Usage conditions This appliance has been designed and tested to ensure safe operation. The user is required to observe the information and warnings provided in this manual to ensure safe operation and preserve the safety features of the appliance.**

2.1.5 Upon receipt

Upon receipt, check packing and product components for damage in the presence of the carrier. Liability for transport damage attaches to the forwarding agent or carrier. Report any damage, giving details of the nature and severity of the damage, in the shipping document and file a claim against forwarding agent or carrier.

2.1.6 How to obtain your User Password

Submit your User Password request to TECNOMOTOR S.p.A. using the suitable form or through its sales network.
TECNOMOTOR will send the personal Password directly to the addressee specified in the request as indicated.

2.1.7 Product Identification Number

A label with the product serial number is affixed to the outside of the case.
Quote this Identification Number when applying for your User Password and whenever requesting assistance from Technical Service.

2.1.8 KIT Contents

The content of SOCIO 300 is indicated in the following Table

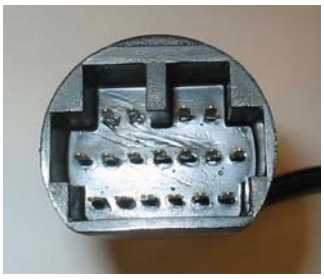
Image	Description
	Suitcase
	Self-diagnosis module
	Shockproof rubber case for self-diagnosis module
	Personal Computer or handheld display connection cable
	User Manual
	Software for installing the SOCIO programme to your PC. Includes NO-STOP software to download updates from the Internet

Image	Description
	Battery power supply cable (12 V)
	SELF-DIAGNOSIS MODULE (BBAD) This is the key component and manages diagnostic communication with the vehicle ECU.
	USER INTERFACE AND UPDATE SOFTWARE The software package includes the programmes to be installed on the PC. • User interface “SOCIO” • programme TECNOMOTOR NO-STOP

Accessories – EUROPE vehicles cables		
Image	**Description**	**Code**
	Connection cable for Ford vehicles up to 1995	-
	Connection cable for vehicles of the VAG group up to 1995	-
	Connection cable for FIAT Group vehicles (Packard, 3-way)	-
	Connection cable for Opel vehicles up to 1995	-
	Connection cable for Renault vehicles up to 1995	-
	Bipolar connection cable for first PSA vehicles	-

Accessories – EUROPE vehicles cables		
Image	**Description**	**Code**
	Connection cable for vehicles equipped with EOBD port	-
	30-pin connection cable for PSA vehicles	-
	Connection cable for BMW vehicles	-
	Connection cable for Mercedes vehicles before introduction of EOBD port	-
	Universal connection cable (accessory cable)	-

Accessories – ASIA vehicles cables		
Image	**Description**	**Code**
	Connexion cable HONDA 5 + 3 pin	-
	Connexion cable SUZUKI 6 + 4 pin	-
	Connexion cable SUBARU 9 pin	-
	Connexion cable KIA 20 pin	-
	Connexion cable NISSAN 14 pin	-
	Connexion cable HYNDAY-MITSUBISHI 12 pin	-

Accessories – ASIA vehicles cables		
Image	**Description**	**Code**
	Connexion cable MAZDA 17 pin tondo	-
	Connexion cable TOYOTA 17 pin rettangolare	-

KIT Vehicles Cables		
Image	**Description**	**Item Number**
	Cables KIT for EUROPEAN vehicles	-
	Cables KIT for ASIAN vehicles	-
	Cables Kit for Motorbikes	-

Accessories		
Image	**Description**	**Item Number**
	Bluetooth	-
	Battery RPM counter	-
	Temperature Probe	-

Accessories		
Image	**Description**	**Item Number**
	PC measures Kit (Oscilloscope/Multimeter)	-
	Probes for Automotive Scope/Multimeter	-
	4 channels expansion Kit SOCIO	-
	Amperometric Clamp 10A	-
	Amperometric Clamp 1000A	-
	Pressure Kit	-
	Belt tightening pulley kit	-

Accessories		
Image	**Description**	**Item Number**
	Gas Analysis Module complete with accessories	-
	Smoke meter module	-
	USB connection cable for coupling the Gas Analysis Module and Smoke Meter with SOCIO 300	-
	Support for hand held display SOCIO 700	-
	Trolley for Hand – Held display SOCIO 700	-
	Trolley for gas and smoke meter module	-

2.1.9 Description of the self-diagnosis module (BBAD)

2.1.9.1 Port identification

The self-diagnosis module features the following ports:

	“Diagnosis” 26-pin high-density D connector for connection to vehicle ECU.
	“Serial” 9-pin sub-D connector for connection to PC
	KYCON “Power Supply” connector to feed module where vehicle diagnostics socket does not provide for power supply.

2.1.9.2 Power supply

The self-diagnosis module is powered by the “power supply connector” from one of the following power sources:

- 220V power mains adapter
- 12 V battery power supply cable
- diagnostic port if the system to be diagnosed includes a diagnostic system power supply feature (as in a vehicle system equipped with EOBD connector).

2.1.9.3 Self-diagnosis module warning lights

(2) (1)

The self-diagnosis module has two warning lights at the sides of the ”diagnosis” connector that indicate module operating status.

Green LED for status indication (1).
This LED indicates the operating status of the self-diagnosis module:

- LED flashing: self-diagnosis module is powered and is operating correctly.
- LED steady on: self-diagnosis module is powered but is not operating correctly.

When this is the case, remove power supply to the module, wait a few seconds and power back on again.

Three-colour LED indicating status of communication with vehicle ECU (2).
This LED has different colours to indicate the status of communication between vehicle system and self-diagnosis module:

- Orange: self-diagnosis module is trying to establish communication with vehicle ECU; this condition typically occurs after system selection, when the diagnostic procedure is initiated.
- Green: self-diagnosis module is communicating with the ECU and is updating the parameters required by the software.
- Red: communication between vehicle ECU and self-diagnosis module timed out or no communication established.

In all other cases, the LED remains off.

2.2 Product installation

This section of the manual provides an installation guide. Please refer to paragraph **KIT Contents** to identify the components and connections described in the procedure.

Important
Make sure you have installed the SOCIO software and the USB driver contained in the CD before connecting the USB connector to the PC. You will be prompted to install the USB driver at some point during the SOCIO software loading process.

Note
If your PC's USB ports are not enabled, please refer to the User Manual of your PC.

Note
Should you experience any problems during installation, please read paragraph **Troubleshooting** *in this manual.*

2.2.1 How to install the SOCIO software to your PC

A Take the CD from the case

B Start your PC, place the CD in the reader and close the tray. If AutoRun is enabled on your PC, it will start the installation automatically; otherwise you can start the installation by double-clicking icon “setup.exe” in your CD reader drive

C Wait for the installation programme to appear and follow the on-screen instructions.

2.2.2 How to connect the Self-diagnosis module (BBAD) to the PC

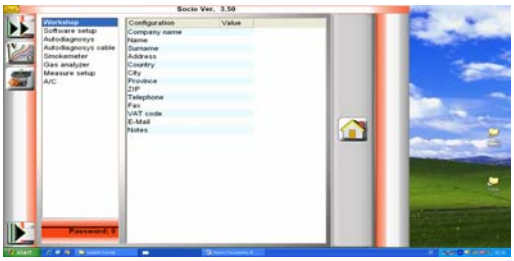
Warning
Make sure the devices are off before performing the connections described below.

	Connect the serial connector of the communication cable to the serial connector of the self-diagnosis module (BBAD). If the connector has been inserted correctly, you will hear the retaining clip click into place, indicating the connector has locked into place in the mating piece. To remove the connector, press the tab on the side and then pull.
	Connect the USB connector of the communication cable to a USB port on your PC. If the PC doesn't recognise the cable after coupling the connector to the USB port see the Appendix 2.5.4
	Connect the power supply connector to the self-diagnosis module. While inserting the connector, its armour will slide to lock the connector into place. To remove this connector, pull on the sliding armour and the connector will come clear.
	Connect the power supply clamps to the vehicle battery; be sure to connect the red clamp to the positive terminal and the black clamp to the negative terminal and make sure that the green light is flashing.

2.2.3 SOCIO icon

At the end of the installation procedure, the SOCIO icon is displayed on the PC Desktop. Double-click the icon to start the programme.

2.2.4 How to enable the SOCIO Self-diagnosis software

	Start the SOCIO SW. Select the interface English language Select the tool. Using the vehicle or motorbike option the following windows will be showed up on the screen.
	Digit the User Password and click Ok.
	Select the 'workshop' item and fill up the workshop data.
	Before connecting the SOCIO select the serial communication port. For verifying the serial port XP has assigned to SOCIO USB cable see to Appendix 2.5.3.

Important
The SOCIO software will not work if the enable procedure has been aborted.

Important
After the enable procedure (or an update), the SOCIO software will only work with the Self-diagnosis Module (BBAD) used when the software was enabled, as it needs to recognise the module Serial Number before it can operate.

2.3 Operating instructions

2.3.1 Connection to the PC

The connection between Self-diagnosis module and PC is covered in the section that provides the installation instructions.

2.3.2 How to start the SOCIO programme

Double-click the SOCIO icon on the desktop to run the SOCIO interface.

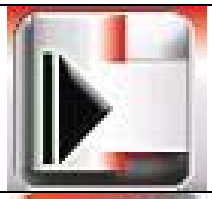
2.3.3 Display modes

Horizontal display with function keys on right and left side of screen.

2.3.4 Legend and meaning of icons

Note
When you run the programme on the PC, you may view a command description by passing the pointer over an icon. A "tool-tip" appears with a full-text description of the command.

MAIN MENU

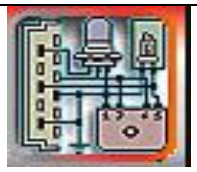
Single arrow menu key	Lets you select work environment	
Emission module key	Provides access to emission analysis environment	
Update key	Setup for direct download of updates	
Setup key	Customised setup of peripherals and shop information.	
Measurement key	Provides access to measurement module	
Double arrow menu key	Provides access to general functions menu	

DESCRIPTION OF GENERAL FUNCTIONS MENU

Marketing module	Provides access to customer and customer vehicle management area.	
Vehicle selection	Lets you select vehicle to be diagnosed from the self- diagnosis database	
On-line Help	Provides instant access to on-line help	
Control panel	Lets you customise display hardware settings (battery power save feature, display brightness, stand by, Bluetooth configuration, etc.)	
Language selection	Lets you select display language	
Product information	HW and SW version	
Print	Sends documents to a USB printer	
Power off	Saves settings and initiates correct shutdown procedure	

BROWSING

EOBD	Allows vehicle diagnosis with no need of direct selection. It is necessary that self-diagnosis module is inserted in the display and is connected with EOBD cable	
Vehicle selection	Vehicle can be selected by choosing the brand, fuel, model and version. As an alternative, it is possible to recall it from the list of the last 10 vehicles. When you have selected the vehicle, two additional keys are enabled: **technical information** and **system selection**	
Technical information	In this environment, you can browse scheduled maintenance information, timing belt information, general wiring diagrams and guided diagnosis (if available)	
Technical specifications	Provides access to the technical specifications of the selected vehicle	
Scheduled maintenance	Displays a list of scheduled maintenance operations required at the different service intervals	
Timing belts	This section contains the full instructions for timing belt replacement. Detailed descriptions and diagrams provide a step-by-step guide for the user to facilitate the replacement procedure	
General wiring diagrams	Displays the wiring diagrams of the selected vehicle with component descriptions.	
Vehicle's failure log	Allows you to check a known fault detected on the vehicle under consideration	

System selection	Lets you select the electronic system of the vehicle to be diagnosed. When you have selected the system, some additional keys are enabled: **diagnosis**, **road test** and **step-by-step diagnosis**	
System wiring diagrams	Allows you to select the wiring diagram of the system to be diagnosed. The diagram is interactive, click on the single components to display the technical details, the drawing and position in the diagram.	
Diagnosis	Enables communication with the ECU. Activating this function enables the buttons that give access to the following functions: view parameters and states, view errors, actuators, diagnostic report, system technical documentation.	
Parameters and states	Displays the parameters and states made available by the ECU.	
Change parameters/states	Lets you select and change displayed parameters and states to suit specific diagnostic needs	
Save data to report	Lets you save self-diagnosis data in the report.	
Change display mode	Lets you change the display mode of selected parameters/states from tabular form (values) to graphical from (histograms).	

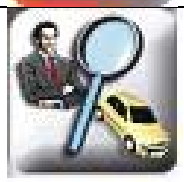
BROWSING

Errors	Lets you view the errors stored in the ECU. The View Errors function is active as long as communication with ECU is maintained.	
Actuators	Lets you check operation of actuators and components connected to ECU.	
Actuate component	Lets you actuate the selected component	
Actuation sequence	Lets you select several components and actuate them in a sequence	
Settings	Lets you set some special parameters.	
ECU Info	Displays general information on the ECU and its SW release.	
Report	Lets you view the data stored during the diagnosis procedure. (parameters and states, errors, actuated components, settings, etc.).	
Specifications	Displays the specifications of the system you are diagnosing.	

BROWSING

Start/Stop	Turns communication with ECU on and off	
Road test	Enables diagnosis and detection of parameters/states during a road test. The progression over time of up to three parameters can be recorded and stored on the card	
Change reference system	Lets you choose between graphical display with one reference system or with 3 separate graphs.	
Select road test parameters/states	Lets you select up to three parameters to be stored during a road test	
View errors	Lets you view the errors detected during a road test	
Acquisition start	Lets you set data acquisition parameters, such as acquisition time and when acquisition will start (right away, when an error occurs, from within a given range of a particular parameter).	
Play	Lets you view the information recorded during a road test.	
Save road test	Lets you save a road test to retrieve it at a later time	
Retrieve road test	Lets you retrieve a road test saved previously	
Time base rule	Lets you set the time base for road test display	

BROWSING

Marketing Module	Provides full customer information: customer details, vehicle information, repairs grouped by work order, maintenance schedules, diagnostic and road test reports. In other words, it provides an overview of the vehicle's repair history	
Add new customer	Lets you add a new customer record to the marketing database.	
Add new vehicle	Lets you add a new vehicle to the database and associate vehicle to an existing customer	
Find customer/vehicle	Lets you locate a customer or a vehicle searching the database by customer **surname** or vehicle **frame number**.	
Delete customer	Removes customer from marketing database	
Delete vehicle	Removes vehicle from vehicle database	
Work order	Lets you create and manage a work sheet listing all repairs required by a vehicle. You can also enter specific customer requests manually using a virtual keyboard.	
Planning	Lets you plan shop activities and retrieve them by date, type, customer and vehicle	
Self-diagnosis log	Keeps a log of all self-diagnosis operations performed on a vehicle based on diagnosis and road test reports.	

2.3.5 User interface and screen pages

The table below reports a few example screen-shots. Two display modes are available: horizontal with keys on right and left side or vertical with keys at top and bottom of the screen. The user may select either display mode according to his personal preferences. Both display modes provide the same functions

Note
Display mode can be selected using function "Control Panel".

Vehicle selection	
Position of diagnostic socket	

Routine maintenance guide	
Customer / license number selection	

2.3.6 EOBD diagnosis

For EOBD diagnosis, you need not select the system from the System Database; to establish communication with the ECU once you have performed the necessary connections, all you need to do is press the EOBD button. For connection to an ECU equipped with EOBD port, use the E641 cable.

Warning:
EOBD diagnosis will only work with vehicle that support this protocol.

Important
When you select the vehicle from the database - even for EOBD Diagnosis - you will obtain useful information, such as the location of the diagnostics port.

2.3.7 How to use the vehicle database

After activating the relevant functions from the menu, you can select a vehicle in one of two ways:

- Select in the order: make, fuel, vehicle model and version
- Choose from the last ten vehicles diagnosed.

Warning:
Before connecting the diagnosis connector to the vehicle system, ensure that the cable is the number specified by the software when selecting the ECU to be diagnosed.

Warning:
For correct vehicle diagnosis, all specifications of the system to be diagnosed must be selected correctly.

Warning:
The status of communication with ECU can be monitored on a dedicated graphic display.

Warning:
If there are any errors stored in the ECU, the corresponding graphic display is turned on.

2.4 Troubleshooting

2.4.1 Problems during installation

Problem:	**After inserting CD and closing reader tray, installation will not start automatically**
Remedy	*The PC does not have Autorun enabled; select the CD reader drive from "Computer Resources" and double-click icon "setup.exe".*

2.4.2 Problems during operation

Problem:	**After selecting a vehicle correctly, the tester reads "Password not valid"**
Remedy	*Enable or update session omitted or failed (the password used is belong to a different BBAD module).* *Check your ID and Password.* *Repeat the update procedure.*
Problem:	**After selecting a vehicle correctly, the tester reads a message warning the user the system selected is not activated by the current subscription**
Remedy	*Enable or update session omitted or failed (the password used is not enable for the current year).* *Is mandatory the subscription to the current year.* *Repeat the update procedure.*
Problem:	**No communication within the BBAD module and the vehicle's ECU.**
Remedy	*Check the vehicle and the ECU selected using the Socio PC SW were alike the system examined.*
Problem:	**BT communication failed. The Socio PC SW is not able to pair the BBAD module using the BT devices.**
Remedy	*See the appendix 2.5.2*
Problem:	**The number of the COM Serial Port the Operating System XP reserves for the Socio USB cable (or USB BT) is unknown.**
Remedy	*See the appendix 2.5.3*
Problem:	**The Socio USB cable (or USB BT) is in the wrong position respect the USB connector used during the installation of the Socio PC SW.**
Remedy	*See the appendix 2.5.4*

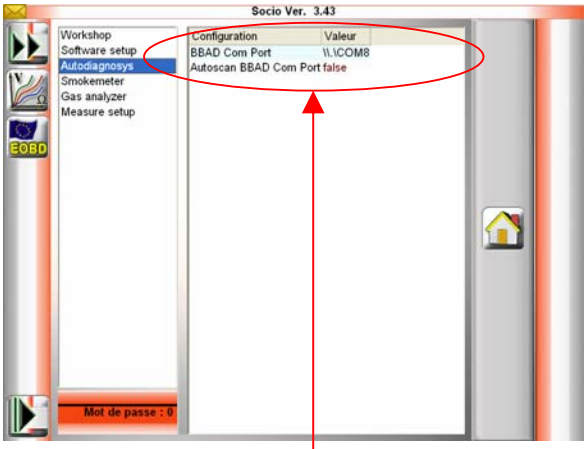
2.5 Appendix

2.5.1 Warranty information

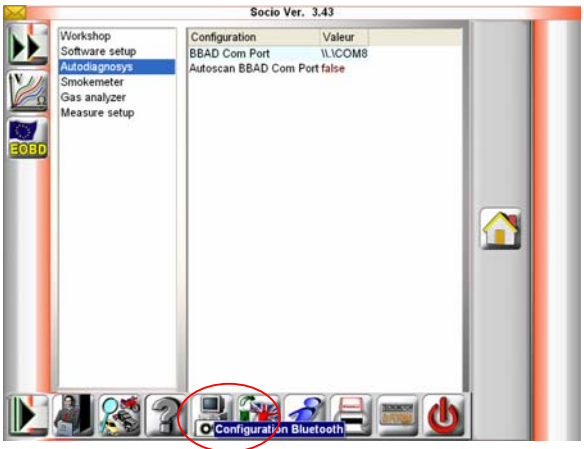
This product is covered by 12-month warranty from date of purchase. For detailed information on warranty terms and service procedures, please see the Warranty Terms and Conditions or contact TECNOMOTOR S.p.A. “Customer Service”.

2.5.2 Bluetooth Configuration

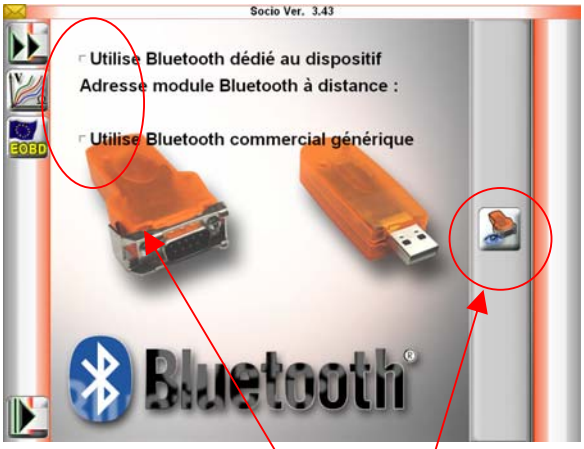
1. Enter the Autodiagnostics page and use the Configuration button



2. Be sure the serial port is correctly configured, that is select the COM port the Windows Operating System made available after the installation of the SOCIO software.
3. It is advisable to set the 'Autoscan BBAD COM Ports' parameter with the FALSE value

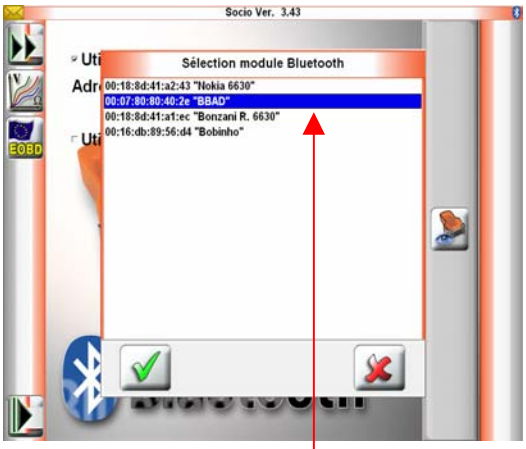


4. After the serial port configuration, use the Blue Tooth configuration button

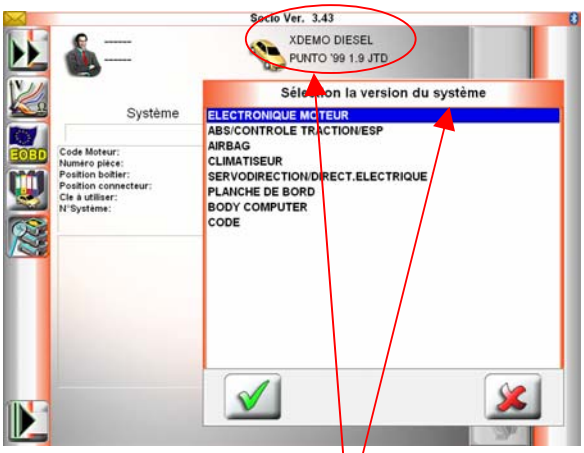


5. Select the Blue Tooth option to be used
6. Carry out the guided procedure for the Blue Tooth module selection
7. Select the COM Serial Port where the USB BT module is installed

WARNING: connect a BBAD module to a power source and be sure the Blue Tooth key is correctly fitted - green led ON



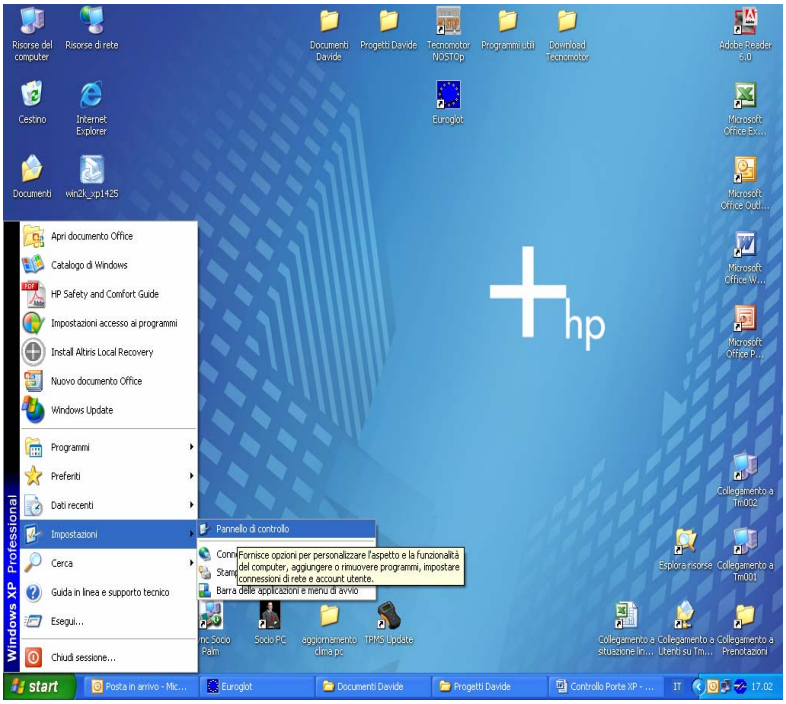
8. The guided procedure searches for the nearby Blue Tooth devices. When the list is displayed, select the BBAD item.
9. Carefully follow the procedure instructions.

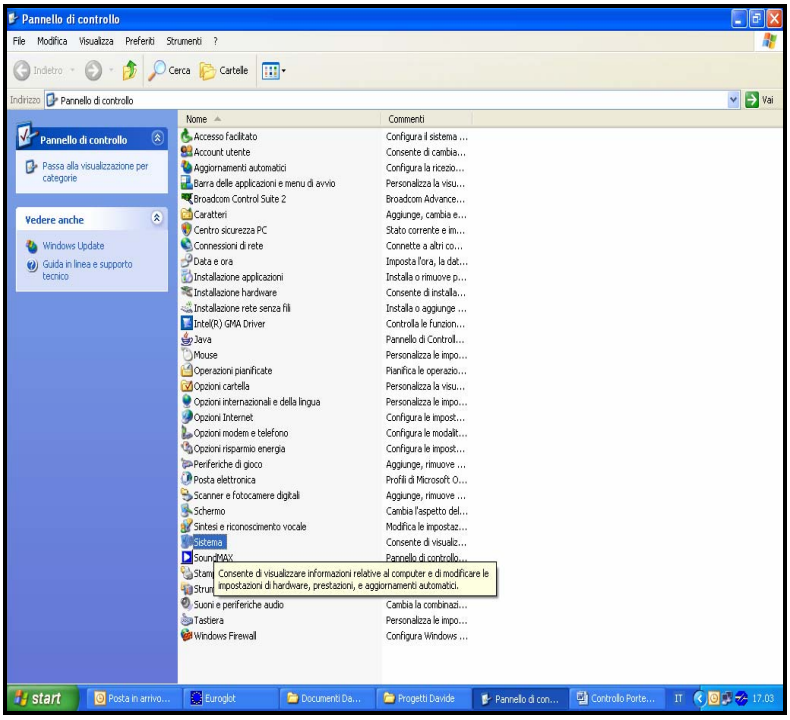


10. Finally, select the XDEMO car, select a system and be sure data are correctly displayed.

2.5.3 XP Serial Ports

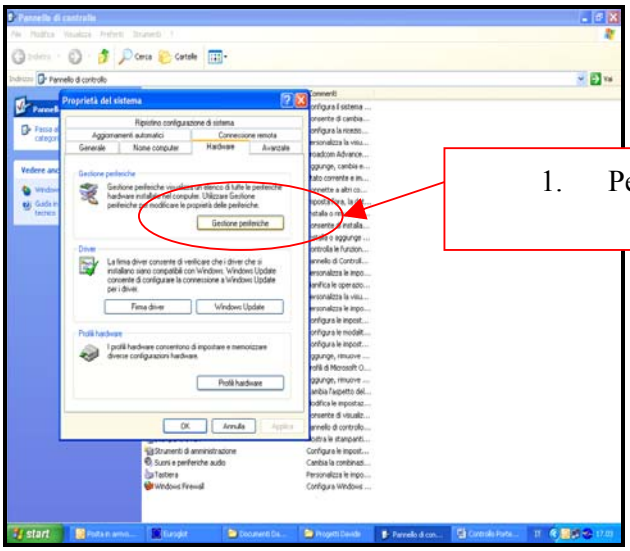
Follow the path below:



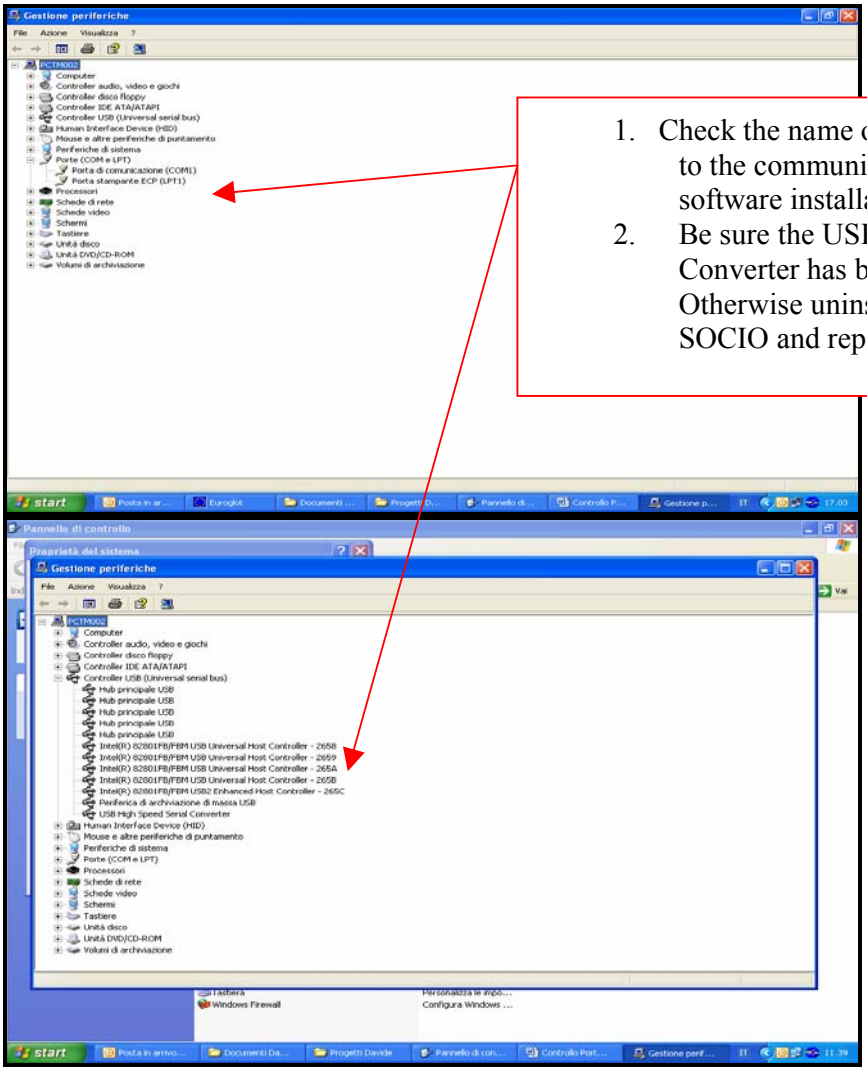


This procedure is required in case it is necessary to check the name of the serial port (COM) the XP Operating System has assigned after the installation of the SOCIO software.
This information is very important to configure the serial communication within the SOCIO software.

WARNING : In case of problems concerning the Drivers during the installation of the SOCIO software, some yellow warning triangles are displayed next to the devices description on the 'Peripherals Management' page.



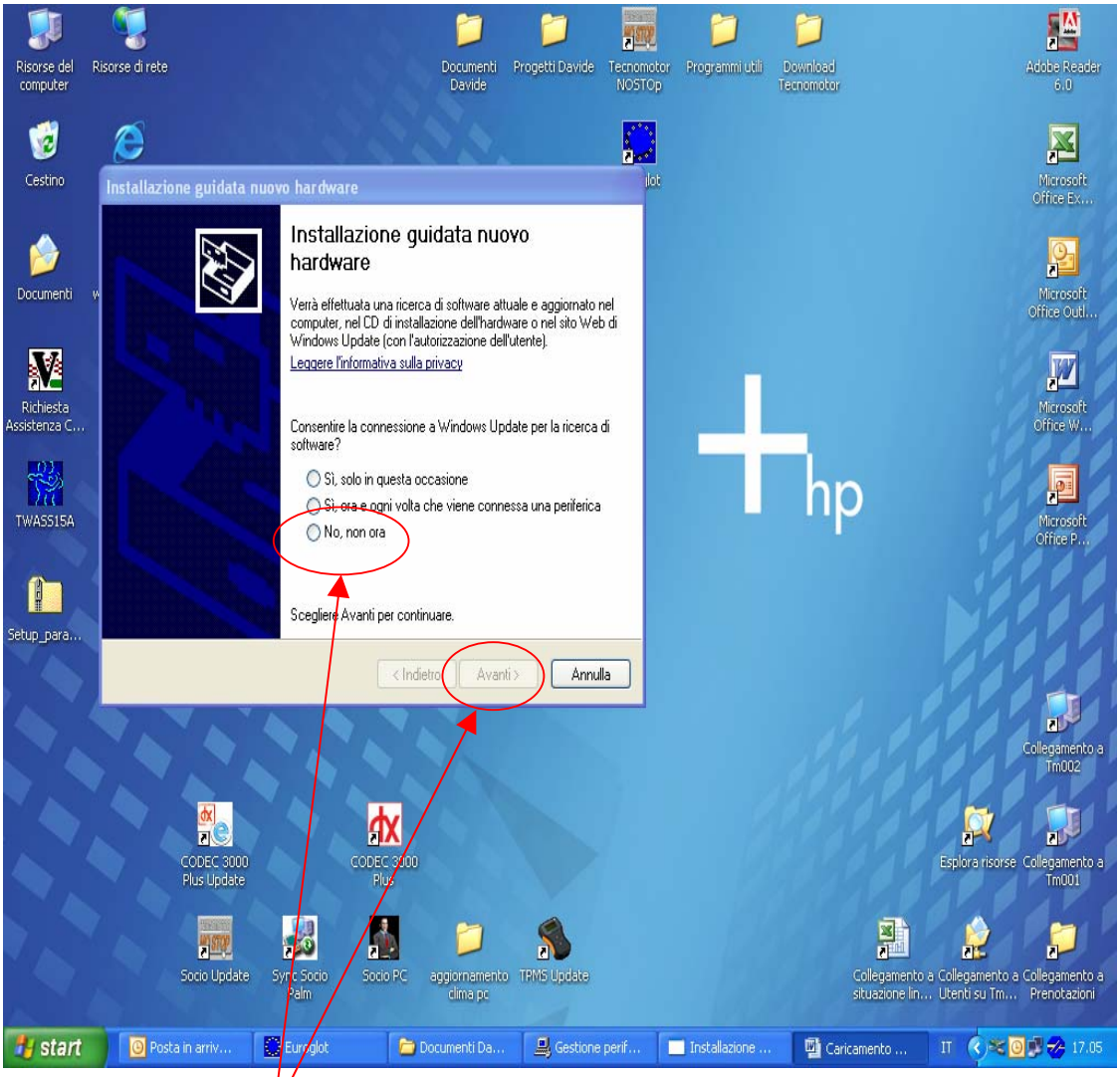
1. Peripherals management



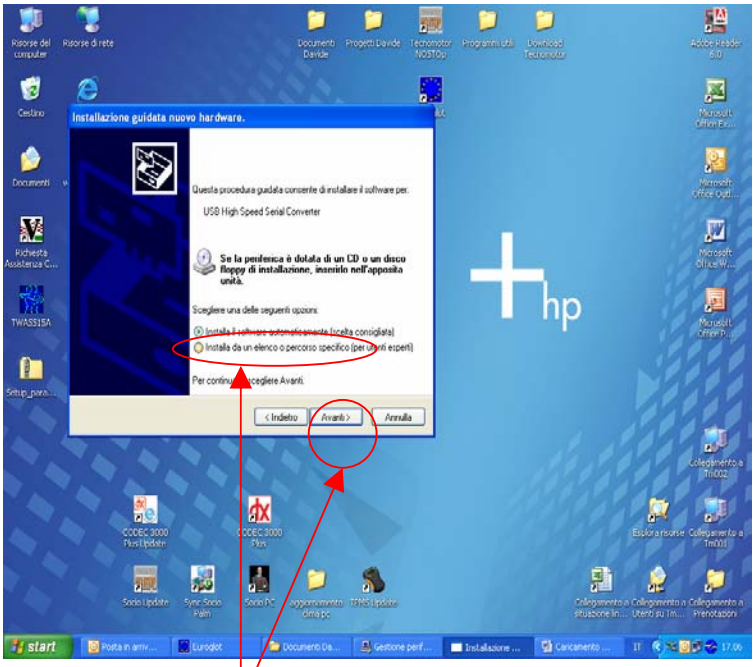
1. Check the name of the serial port XP has assigned to the communication with the SOCIO after the software installation .
2. Be sure the USB Driver High Speed Serial Converter has been installed.
   Otherwise uninstall the SOCIO software SOCIO and repeat a new installation.

2.5.4 Socio Drivers

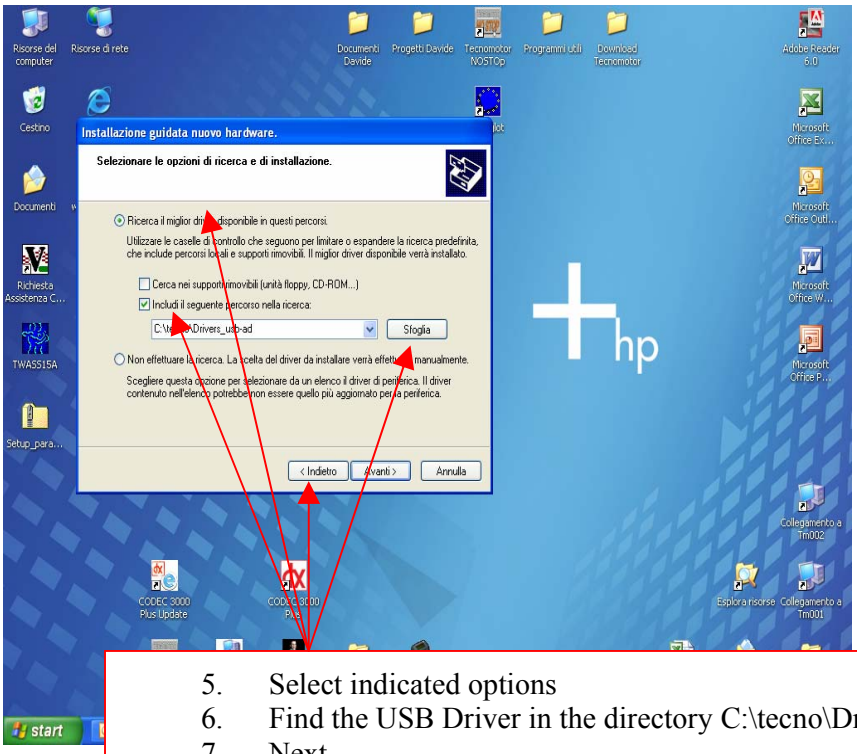
When the Customer connects the USB connector of our cable or Blue Tooth key to a USB port which is not configured during the first installation, the Operating System of the PC starts automatically a guided procedure for the Driver configuration.


Installazione guidata nuovo hardware
Installazione guidata nuovo hardware
Verrà effettuata una ricerca di software attuale e aggiornato nel computer, nel CD di installazione dell'hardware o nel sito Web di Windows Update (con l'autorizzazione dell'utente).
Leggere l'informativa sulla privacy
Consentire la connessione a Windows Update per la ricerca di software?
Sì, solo in questa occasione
Sì, ora e ogni volta che viene connessa una periferica
No, non ora
Scegliere Avanti per continuare.
< Indietro
Avanti >
Annulla

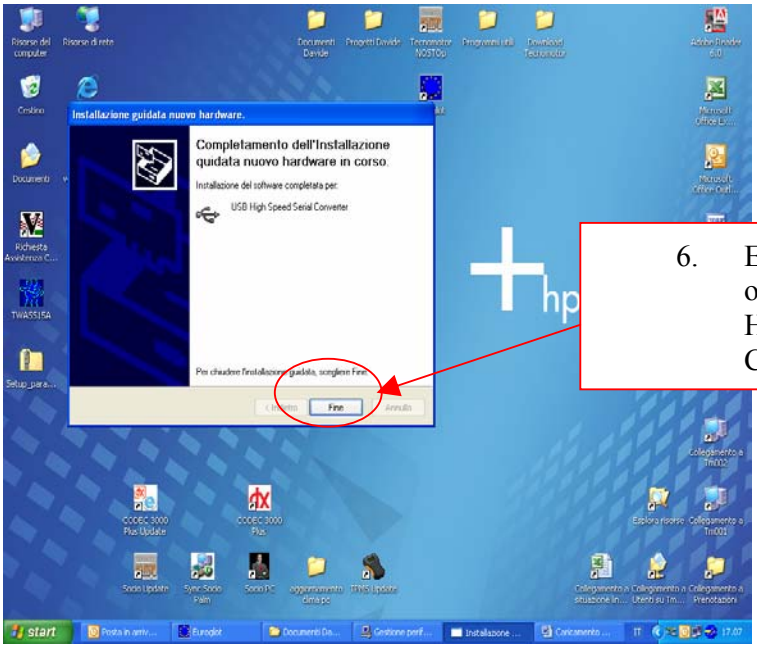
1. Select the option
2. Next


Installazione guidata nuovo hardware.
Questa procedura guidata consente di installare il software per:
USB High Speed Serial Converter
Se la periferica è dotata di un CD o un disco floppy di installazione, inseriolo nell'apposita unità.
Scegliere una delle seguenti opzioni:
Installa da un elenco o percorso specifico (per utenti esperti)
Per continuare, scegliere Avanti.
< Indietro
Avanti >
Annulla

3. Choose export Users installation option
4. Next

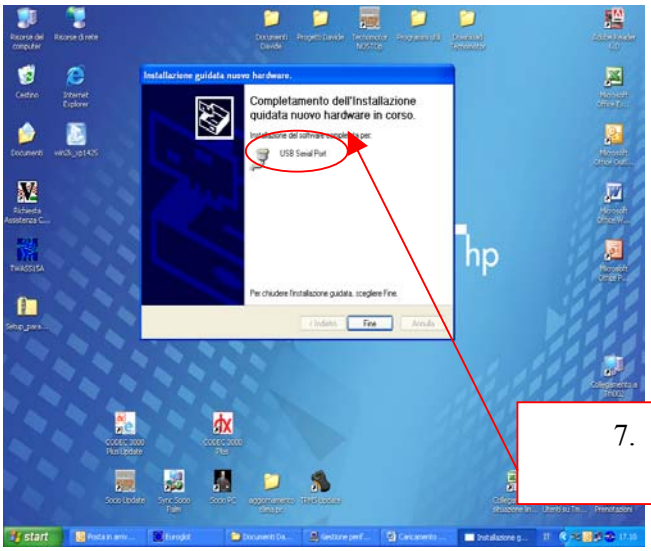

Installazione guidata nuovo hardware.
Selezionare le opzioni di ricerca e di installazione.
Ricerca il miglior driver disponibile in questi percorsi.
Utilizzare le caselle di controllo che seguono per limitare o espandere la ricerca predefinita, che include percorsi locali e supporti rimovibili. Il miglior driver disponibile verrà installato.
Cerca nei supporti rimovibili (unità floppy, CD-ROM...)
Includi il seguente percorso nella ricerca:
C:\tecno\Drivers_usb-ad
Sfoglia
Non effettuare la ricerca. La scelta del driver da installare verrà effettuata manualmente.
Scegliere questa opzione per selezionare da un elenco il driver di periferica. Il driver contenuto nell'elenco potrebbe non essere quello più aggiornato per la periferica.
< Indietro
Avanti >
Annulla

5. Select indicated options
6. Find the USB Driver in the directory C:\tecno\Drivers_usb-ad
7. Next



6. End the installation of the USB Driver High Speed Serial Conv.

WARNING : The above-described procedure has to be carried out twice, that is the Operating System requires the execution of this procedure twice. The second half of the procedure has to be carried out in the same way as the first half, by also using the name of the same directory for the Driver C:\tecno\Drivers_usb-ad



7. End the installation of the USB Driver

At the end of the guided installation the Customer shall always use the USB port of the PC used during this procedure.